12 April 1956 DRAFT

USAF Declass/Release Instructions On File

GUIDED MISSILE CONVERIEUTION TO

NIE 11-6-56

IV. Soviet Capabilities in Research and Development Related to Willtany and Industrial Technology

- A. Evaluate present Soviet capabilities in the following fields, giving examples of outstanding recent developments. Indicate probable future trends.
 - 1. Atomic Emergy, including weapons, power and propulsion.
 - 2. Guided Missiles Systems."
 - a. We have estimated that the strategic requirements of the USSR would dictate a major effort in the field of guided missiles and that the USSR has the basic scientific and technical espabilities to support a comprehensive research and development program. We have concluded on the basis of recent statements of Soviet leaders regarding Soviet guided missiles, the large number of personalities and activities believed to be associated with the Soviet missile program, our knowledge of the Soviet exploitation of the Greener missile experience, and significant additional evidence, that the USSR is engaged in an extensive

^{*}For more detailed information on Soviet guided missile capabilities see NIE 11-12-55 dated 20 December 1955 and HIE 11-5-56 (to be published in July 1956).

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guided missile program on a high priority. The Soviet guided missile capability has been growing and will continue to develop within the next several years.

b. We have further concluded that the USER now has missile systems in all categories in at least limited operational use; however, we have intelligence on the specifics of the missile types the USER is presently developing, or may now have in operational use.

(1) Surface-to-Air Missile

Missile installations have been observed in the vicinity of Moscov which we believe to be surface-to-air guided missile launching sites in support of the defense of Moscov. We have concluded that the USER now has an air defense missile system in at least limited operational use. We expect the USER to continue to give high priority to developing improved surface-to-air missiles where its air defense deficiencies.

(2) Surface-to-Surface Ballistic Missiles

Our information indicates that considerable and increasing numbers of ballistic missiles are being tested at the Kapustin Yar guided missile test range. This information does not permit accurate assessments of the actual ranges involved, but it does indicate the scale of the program. We believe that a full scale, surface-to-surface ballistic missile program is underway in the USSR. Aside from tactical missiles for support of its

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field forces, we believe that for the next few years, this effort will probably be concentrated more upon development of improved missiles them upon quantity production of interim types.

Air-to-Air Missiles

There

To bolstor its our defense weakstonses, the USA: kar partthe leabounts

ably assigned a high priority to our-to-air missiles. #s

have so significant intelligence information in this field.

We expect the USER to place an all-weather, sir-to-surface missile with nuclear warhand on a high priority within the next few years to offset the increasing effectiveness of Allied air defenses around key targets week. Topdophysolly, some effort has

been made to produce in quantity a precision weapon for effective entiship attacks.

We believe the USSR has a requirement and is capable of hours developed schraming-isunched missiles for nuclear attacks on US and Allied coastal areas.

3. Artificial Satellites

We believe the USSR possesses the basic scientific capabilities, technical skills and other resources required to build and launch an unmanued earth satellite vehicle. From recent statements by Soviet officials and scientists we have concluded that the USSR is placing considerable emphasis on this program.

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